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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,454	06/23/2003	Ning Guo	GUON3001/REF	7227
23364 7: BACON & THO	590 03/28/200 DMAS, PLLC	EXAMINER		
625 SLATERS LANE			HYUN, SOON D	
FOURTH FLOC ALEXANDRIA			ART UNIT	PAPER NUMBER
•	•		2616	
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/28/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)			
	10/600,454	GUO, NING			
Office Action Summary	Examiner	Art Unit			
	Soon D. Hyun	2616			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DARWING - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status		:			
1)⊠ Responsive to communication(s) filed on <u>23 Ju</u>	ine 2003.	:			
:	action is non-final.	:			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the me					
closed in accordance with the practice under E		•			
Disposition of Claims		:			
Disposition of Claims		i			
4) Claim(s) <u>1-3</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) 1-3 is/are rejected.		:			
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	r election requirement				
or Claim(s) are subject to restriction and/o	r election requirement.	;			
Application Papers		£			
9)☐ The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) □ acc	epted or b) objected to by the	Examiner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).			
 Certified copies of the priority document 	s have been received.				
2. Certified copies of the priority document					
3. Copies of the certified copies of the prior	·	ed:in this National Stage			
application from the International Bureau					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.			
,					
Attachment(s)					
) Notice of References Cited (PTO-892)	4) Interview Summary				
Paper No(s)/Mail Date Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Notice of Informal Patent Application					
Paper No(s)/Mail Date	6) Other:				
AL					

Art Unit: 2616

DETAILED ACTION

Claim Objections

1. Claims 1-3 are objected to because of the following informalities:

In lines 4, 5, 6, respectively, "the" before "same" should be changed to -a - to avoid lack of antecedent basis.

In line 7, "the" before "main" should be changed to – a – to avoid lack of antecedent basis.

In line 10, "the" before "priority" should be changed to – a – to avoid lack of antecedent basis.

In line 10, "the" before "just" should be changed to – a – to avoid lack of antecedent basis.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claim 2 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement.

In line 8, "multiple interfaces become main interfaces simultaneously" is not supported by the disclosure.

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

Art Unit: 2616

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In line 4, it is not clear what is meant by "otherwise."

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Shinomiya (US 2003/0037165).

Regarding claim 1, Shinomiya discloses a method for implementing router interface backup with Virtual Router Redundancy Protocol (VRRP), comprising the steps of:

connecting multiple interfaces (plurality of routers in a virtual router 3 in FIG. 1, paragraph 0043, i.e., each router in the virtual router is equivalent to a interface in the claim) of a router (virtual router 3) to the same LAN (HUB 2 in FIG. 1) and adding the interfaces to the same multicast group (paragraph 0074);

Art Unit: 2616

assigning the same virtual router number (1 in FIG. 9A) and virtual IP address (10.15.18.1 in FIG. 9A) to the interfaces to make the interfaces join the virtual router;

selecting the main interface and backup interfaces according to their respective priorities among the interfaces (paragraph 0045); and

sending VRRP multicast packets from the main interface to all backup interfaces periodically and one backup interface becoming the main interface and replacing the original main interface if the backup interfaces have not received any VRRP multicast packet within a predetermined period (paragraphs 0046, 0069, 0070).

Regarding claim 2, Shinoyama discloses further steps of:

an interface becoming a backup interface when initiated (paragraph 0078) and becoming the main interface if it has not received any VRRP multicast packet within a period (paragraphs 0046, 0069, 0070);

an interface becoming the main interface after initiated (paragraphs 0045, 0078) if the virtual IP address of the interface is identical with its real IP address and assigned a higher priority (maximum priority) to the interface (paragraph 0045); and

an interface becoming a backup interface if the priority involved in the received VRRP packet is higher than its own priority interface after comparing the priority with its own priority.

Regarding claim 3, Shinoyama discloses further step of:

keeping the state of a backup interface unchanged if the priority involved in the VRRP packet received by the backup interface is higher than the priority assigned to the backup interface;

Art Unit: 2616

a backup interface becoming the main interface if the priority involved in the VRRP packet received by the backup interface is lower than the priority assigned to the backup interface.(paragraphs 0045, 0046, 0069, 0070).

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Soon D. Hyun whose telephone number is 571-272-3121. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi H. Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

S. Hyun 3/23/2007

CHI PHAIVI SUPERVISORY PATENT EXAMINER 3/26/07

Page 5